



NC/QC/W-06/2018-19/HN-K2

Date: 10-04-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.37	23.25	23.08	As per Cl. 6.2.2 of IS 456- 2000, $f_{cr}=0.7\sqrt{f_{ck}}$
2	002	3.35	22.95		
3	003	3.36	23.05		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.38	4.45
2	002	4.46	
3	003	4.51	

KIRAN. R
M.E, (Civil-Engg)

NC/QC/W-06/2018-19/HN-K3

Date: 16-04-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Vāradaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

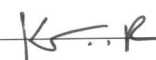
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic Compressive Strength fck in N/sqmm	Remarks
1	001	3.39	23.55	23.28	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.34	22.85		
3	003	3.38	23.45		

2. WATER ABSORPTION TEST

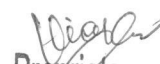
Sl No	Identification	Water absorption %	Average value %
1	001	4.32	4.43
2	002	4.56	
3	003	4.43	


KIRAN. R
M.E, (Civil-Engg)

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For Newzen Consultants Bangalore


Asst. Executive Engineer
Project Division


Proprietor



NC/QC/W-06/2018-19/HN-K4

Date: 22-04-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic Compressive Strength fck in N/sqmm	Remarks
1	001	3.36	23.05	23.00	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.33	22.75		
3	003	3.37	23.20		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.50	4.42
2	002	4.46	
3	003	4.32	

KIRAN. R
M.E, (Civil-Engg)

Proprietor

NC/QC/W-06/2018-19/HN-K5

Date: 25-04-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.39	23.50	23.15	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.34	22.85		
3	003	3.36	23.10		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.44	4.44
2	002	4.35	
3	003	4.53	

KIRAN. R
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For Newzen Consultants Bangalore



Asst. Executive Engineer

Project Division

NEWZEN CONSULTANT BANGALORE, #13, 10th MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

EMAIL: newzen576@gmail.com

Proprietor

NC/PMC/W-13/2018-19/AV-GSB1

Date: 25-03-2019

TEST REPORT ON GRANULAR SUBBASE MIX (GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	97.20	80-100
26.50	75.10	55-90
9.50	62.50	35-65
4.75	33.05	25-50
2.36	16.70	10-20
0.85	8.30	2-10
0.425	4.10	0-5

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KIRAN. R
M.E. (Civil-Engg)

For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division

Proprietor

NEWZEN CONSULTANT BANGALORE, #13, 10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: 91 8792620231, 080 23240187

EMAIL: newzen576@gmail.com

Date: 25-03-2019

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.38 %	Not more than 2.0 %
2.	Liquid Limit, %	20.15	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.13	-----
5.	Aggregate Impact Value, %	28.85	Not more than 40.00 %

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KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore


Proprietor


Asst. Executive Engineer
Project Division



NC/PMC/W-13/2018-19/AV-GSB2

Date: 28-03-2019

TEST REPORT ON GRANULAR SUBBASE MIX (GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	97.20	80-100
26.50	78.10	55-90
9.50	62.45	35-65
4.75	36.80	25-50
2.36	18.45	10-20
0.85	8.05	2-10
0.425	3.75	0-5

K.R.
KIRAN. R
M.E, (Civil-Engg)

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For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division

Proprietor

Date: 28-03-2019

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.37 %	Not more than 2.0 %
2.	Liquid Limit, %	20.12	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.03	-----
5.	Aggregate Impact Value, %	28.75	Not more than 40.00 %

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KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore


Asst. Executive Engineer
Project Division


Proprietor

NC/QC/W-06/2018-19/HN-C2

Date: 27-03-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	158 min	Shall not be less than 30 min
2	Final setting time	270 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.95 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.09 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.15N/Sq mm	Shall not be less than 27 N/Sqmm

KIRAN. R
M.E, (Civil-Engg)

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Asst. Executive Engineer
Project Division

For Newzen Consultants Bangalore

Proprietor

NC/QC/W-06/2018-19/HN-PCC1

Date: 27-03-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

Ref.: Material testing/PMC/18-19,

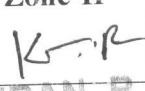
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 -- 100
20mm	65.15	0 -20	30- 70
10mm	32.03	0 -5	10- 35
4.75mm	4.10	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	100.00	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II 
02.36	96.30	60-95	75-100	85-100	
01.18	84.15	30-70	55-90	75-100	
600.mic	46.30	15-34	35-59	60-79	
300.mic	16.90	5-20	8-30	12-40	
150.mic	7.05	0-10	0-10	0-10	

KIRAN. R
M.E. (Civil-Engg)

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For Newzen Consultants Bangalore


Asst. Executive Engineer
Project Division


Proprietor

NC/QC/W-06/2018-19/HN-C3

Date: 30-03-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	163 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.85 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.16 mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	28.34 N/Sq mm	Shall not be less than 27 N/Sqmm

KIRAN. R
M.E. (Civil-Engg)

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For Newzen Consultants Bangalore

Asst. Executive Engineer,
Project Division

Proprietor



NC/QC/W-06/2018-19/HN-PCC2

Date: 30-03-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		40 mm Sample	
40mm	100.00	Single size	Graded
20mm	68.30	85-100	90 - 100
10mm	34.05	0 -20	30- 70
4.75mm	4.30	0 -5	10- 35
		-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	100.00	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II K.R. KIRAN. R M.E., (Civil-Engg)
02.36	98.15	60-95	75-100	85-100	
01.18	86.30	30-70	55-90	75-100	
600.mic	45.10	15-34	35-59	60-79	
300.mic	16.90	5-20	8-30	12-40	
150.mic	8.05	0-10	0-10	0-10	

Page No. 1/1,

For Newzen Consultants Bangalore

[Signature]

Asst. Executive Engineer

[Signature]
Proprietor



NC/QC/W-06/2018-19/HN-C4

Date: 30-03-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	155 min	Shall not be less than 30 min
2	Final setting time	280 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.90 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.03 mm	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	28.26N/Sq mm	Shall not be less than 27 N/Sqmm

KIRAN. R
M.E. (CIVIL-Engg)

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For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division

Proprietor

NC/QC/W-06/2018-19/HN-PCC3

Date: 30-03-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	64.50	0 -20	30- 70
10mm	29.75	0 -5	10- 35
4.75mm	3.60	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	100.00	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II K.R. KIRAN. R
02.36	95.60	60-95	75-100	85-100	
01.18	86.75	30-70	55-90	75-100	
600.mic	46.10	15-34	35-59	60-79	
300.mic	18.60	5-20	8-30	12-40	
150.mic	7.50	0-10	0-10	0-10	

M.E. (Civil-Engg)

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For Newzen Consultants Bangalore



Asst. Executive Engineer
Project Division
Yelahanka Zone

Proprietor

NC/QC/W-06/2018-19/HN-C5

Date: 02-04-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	155 min	Shall not be less than 30 min
2	Final setting time	260 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.92 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.23 mm	Shall not be more than 10 mm
5	Compressive strength d) 3 days (average of three results)	28.36 N/Sq mm	Shall not be less than 27 N/Sqmm

KIRAN. R
M.E. (Civil-Engg)

Page No. 1/1,

For Newzen Consultants Bangalore



Asst. Executive Engineer

Proprietor